



CHIN CHA-ROEN INTERCHEM CO.,LTD.

899/69 MOO15 THEPARAK RD.,BANGSAOTHONG, AM-PUR BANGSAOTHONG,

SAMUTPRAKARN 10570 THAILAND TEL.662 706-4470-2 FAX.662 706-4427

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MATERIAL SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

PRODUCT NAME : Activated Carbon
SYNONYMS : Activated Charcoal
FORMULA : C
CAS NO. : 7440-44-0
CHEMICAL FAMILY : Carbon Group

SECTION 2 : HAZARDOUS INGREDIENTS

None

SECTION 3 : PHYSICAL CHARACTERISTICS

BOILING POINT : Not applicable
VAPOUR PRESSURE : Not applicable
SOLUBILITY IN WATER : Insoluble
PARTICLE DENSITY : Nominal 0.82 g/cc
BULK DENSITY : 0.50 g/cc
MELTING POINT : Not applicable
EVAPORATION RATE : Not applicable
APPEARANCE AND ODOUR : Black irregular granules or powder. Odourless

SECTION 4 : FIRE EXPLOSION HAZARD DATA

FLASH POINT : 350°C
FLAMMABLE LIMIT :
- LEL : Not applicable
- UEL : Not applicable
AUTO IGNITION TEMPERATURE : 350 deg Centigrade
EXTINGUISHING MEDIA : Water, carbon dioxide, nitrogen, dry chemical
extinguishing agents, sand and foam
Avoid methods which may stir up dust clouds.
SPECIAL FIRE FIGHTING PROCEDURE : Since wet carbons adsorb oxygen, do not enter
closed vessels without using a self-contained
breathing apparatus

SECTION 5 : REACTIVITY DATA

STABILITY : Stable
CONDITIONS TO AVOID : Sources of ignition, Freezing and solvent vapours during
storage
INCOMPATIBILITY (MATERIALS TO AVOID) : Strong oxidizing agents during storage and use
HAZARDOUS DECOMPOSITION
PRODUCT/BY-PRODUCT : On burning carbon dioxide and carbon monoxide
HAZARDOUS POLYMERIZATION : Will not occur



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SECTION 6		:	HEALTH HAZARD DATA
EFFECTS OF EXPOSURE	:		Inhalation of carbon dust may cause temporary discomfort. Activated Carbon dust is a nuisance particle.
HEALTH HAZARD ACUTE AND CHRONIC	:		No data available
MOST LIKELY ROUTES OF ENTRY	:		Inhalation (dust may be inhaled)
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE	:		Not known
SECTION 7		:	SAFE HANDLING & USAGE DATA
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	:		Collect with broom and shovel or vacuum sweep up spills. Avoid creating dust.
WASTE DISPOSAL METHODS	:		Dispose of according to Federal, State and Local regulations. Consider potential hazards of any adsorbed material before disposal.
HANDLING & STORAGE	:		Keep in airtight packing to prevent pickup of odours and moisture from air.
SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION	:		If needed, use NIOSH/OSHA approved respirator for dust/mist (non-toxic particles).
VENTILATION	:		LOCAL EXHAUST: Helpful to minimize dust conditions MECHANICAL (GENERAL): Not applicable
PROTECTIVE CLOTHING	:		For personal hygiene purposes, use adequate clothing to prevent skin contact
PROTECTION GLOVES	:		Disposable gloves
EYE PROTECTION	:		Safety glasses/goggles Contact lenses should not be worn when working with activated carbon.
OTHER PROTECTIVE EQUIPMENT	:		None
PROPER SHIPPING NAME	:		Activated Carbon
SECTION 8		:	ACCIDENTAL RELEASE MEASURES
Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in section 9. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container. Warning! Spent product may have absorbed hazardous materials.			



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SECTION 9

: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

OSHA PEL*:

5 mg/M3 (Respirable)

ACGIH TLV*:

10mg/m3(Total)

*PELs and TLVs are 8-hour TWAs unless otherwise noted.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved) :

For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen deficient atmospheres.

Skin Protection :

Wear protective gloves and clean body-covering clothing.

Eye Protection :

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

SECTION 10

: FIRST AID MEASURES

Inhalation :

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion:

Give several glasses of water to drink to dilute. If large amounts were swallowed, seek medical attention.

Skin Contact:

Not expected to require first aid measures. Wash exposed area with soap and water. Seek medical attention if irritation develops.

Eye Contact:

Wash thoroughly with running water for at least 15 minutes. Seek medical attention if irritation develops.

SECTION 11

: TOXICOLOGICAL INFORMATION

Investigated as a reproductive effectors.

-----, Cancer Lists \-----

----- NTP Carcinogen -----

Ingredient

Known

Anticipated

IARC Category

Activated Carbon (7440-44-0)

No

No

None

SECTION 12

: ECOLOGICAL INFORMATION

Environmental Fate:

No information found.

Environmental Toxicity

No information found.



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SECTION 13	:	DISPOSAL CONSIDERATIONS
<p>Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.</p>		
SECTION 14	:	TRANSPORT INFORMATION
<p>Proper Shipping Name: NOT REGULATED</p> <p>Hazard Class: N/A</p> <p>Identification Number: N/A</p> <p>Packing Group N/A</p> <p>This product has been tested according to the United Nations <i>Transport of Dangerous Goods</i> test protocol for spontaneously combustible materials. It has been specifically determined that this product does not meet the definition of a self heating substance or any hazard class, and therefore is not a hazardous material and not regulated.</p>		
SECTION 15	:	REGULATORY INFORMATION
<p>SARA TITLE 111: N/A</p> <p>TSCA: The ingredients of this product are on the TSCA Inventory List.</p> <p>OSHA: Nonhazardous according to definitions of health hazard and physical hazard provided in the Hazard Communication Standard. (29 CFR 1910.1200)</p> <p>CANADA</p> <p>WHMIS CLASSIFICATION: Not Classified</p> <p>DSL#: 6798</p> <p>EEC Council Directives relating to the classification, packaging, and labeling of dangerous substances and preparations.</p> <p>Risk(R) and Safety (S) phrases: May be irritating to eyes(R36)</p>		
SECTION 16	:	COMMENTS
<p>Do not enter vessels containing wet Activated Carbon before checking oxygen level. Vessels with limited ventilation may be low in oxygen due to the adsorbing characteristics of Activated Carbon. If necessary, use a NIOSH-approved self-contained breathing apparatus.</p> <p>EMPLOYERS SHOULD USE THIS INFORMATION ONLY AS A SUPPLEMENT TO OTHER INFORMATION GATHERED BY THEM AND SHOULD MAKE INDEPENDENT JUDGMENT OF SUITABILITY OF THIS INFORMATION TO ENSURE PROPER USE AND PROTECT THE HEALTH AND SAFETY OF EMPLOYEES. THIS INFORMATION IS FURNISHED WITHOUT WARRANTY AND ANY USE OF THE PRODUCT NOT IN CONFORMANCE WITH THIS MATERIAL SAFETY DATA SHEET OR IN COMBINATION WITH ANY OTHER PRODUCT OR PROCESS, IS THE RESPONSIBILITY OF THE USER.</p> <p>-oOo-</p>		